

RADON MITIGATION PART 6 REQUIREMENTS

PURPOSE

This bulletin has been developed to provide guidance in the application of the design requirements for soil gas mitigation systems falling within the scope of Part 6 of the National Building Code-2019 Alberta Edition (NBC(AE)).

DISCUSSION

There are requirements in Part 9 of the NBC(AE) to install the rough-in for a subfloor depressurization system for soil gas mitigation, but these requirements need to be applied and understood with reference to Part 6 of the NBC(AE).

Part 6 of the NBC(AE) requires soil gas mitigation methods to be designed, constructed and installed using good engineering practice (by a registered engineering professional) such as that described in, but not limited to, EPA 625/R-92/016, "Radon Prevention in the Design and Construction of Schools and Other Large Buildings". EPA 625/R-92/016 provides guidance on the various methods that may be used for soil gas mitigation, including the allowance for a combination of soil gas mitigation methods. This document specifically references Soil Depressurization, Building Pressurization and Sealing Radon Entry Routes as acceptable radon prevention techniques. Part 6 of the NBC(AE) does not prescribe mitigation systems for construction, as the appropriate soil gas mitigation system is at the discretion of the registered engineering professional. Only through testing after the building is constructed can there be determination that soil gas mitigation is required.

CODE REFERENCES

Clause 6.2.1.1.(1)(i) states:

6.2.1.1. Good Engineering Practice

(See Appendix A.)

1) Heating, ventilating and air-conditioning systems, including mechanical refrigeration equipment, shall be designed, constructed and installed in conformance with good engineering practice such as that described in, but not limited to,

- i) EPA 625/R-92/016, "Radon Prevention in the Design and Construction of Schools and Other Large Buildings."

Disclaimer:

The information in this bulletin is not intended to provide professional design advice. If professional expertise is required with respect to a specific issue or circumstance, the services of a professional should be sought.

Unless stated otherwise, all Code references in this STANDATA are to Division B of the National Building Code-2019 Alberta Edition.

Issue of this STANDATA is authorized by
the Provincial Building Administrator

[Original Signed]
Paul Chang

The logo for the province of Alberta, featuring the word "Alberta" in a stylized, cursive font with a small blue square at the end of the word.